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	DB=USPT; PLUR=YES; OP=OR		
☐	L19	CAD and (dody or bodies) same graph same terminati$3	0
☐	L18	curve and body same (sweep$ or swept) and graph-based same terminati$3	0
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☐	L16	curve and body and graph-based and (sweep$ or swept) same terminati$3	0
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☐	L14	topology same graph and body and (terminat$4 or stop or cease) and CAD and extent$	4
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☐	L12	CAD and profile and curve and tool same body and graph same (terminati$3 or stop$ or cease)	2
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☐	L6	(sweep$ or swept) same CAD same profile same curve and graph-based same terminati$3	0
☐	L5	(sweep$ or swept) same CAD same profile same curve and graph-based same terminati$3 and path and extent$	0
☐	L4	l3 and (sweep$ or swept) same CAD same profile same curve and graph-based same terminati$3 and path	0
☐	L3	L2 and l1	50
☐	L2	345/441.ccls.	719
☐	L1	345/420.ccls.	682

Terms used
CAD and **body** and **tool** and **sweep** or **swept graph based termination**

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1 Machine interpretation of CAD data for manufacturing applications

Qiang Ji, Michael M. Marefat

September 1997 **ACM Computing Surveys (CSUR)**, Volume 29 Issue 3

Full text available: pdf(1.90 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Machine interpretation of the shape of a component for CAD databases is an important problem in CAD/CAM, computer vision, and intelligent manufacturing. It can be used in CAD/CAM for evaluation of designs, in computer vision for machine recognition and machine inspection of objects, and in intelligent manufacturing for automating and integrating the link between design and manufacturing. This topic has been an active area of research since the late '70s, and a significant number of computat ...

Keywords: artificial intelligence, automated process planning, computer-aided design, computer-integrated manufacturing, feature recognition, flexible automation

2 Gross motion planning—a survey

Yong K. Hwang, Narendra Ahuja

September 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 3

Full text available: pdf(6.40 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Motion planning is one of the most important areas of robotics research. The complexity of the motion-planning problem has hindered the development of practical algorithms. This paper surveys the work on gross-motion planning, including motion planners for point robots, rigid robots, and manipulators in stationary, time-varying, constrained, and movable-object environments. The general issues in motion planning are explained. Recent approaches and their performances are briefly described, a ...

Keywords: collision detection, computational geometry, implementation, motion planning, obstacle avoidance, path planning, spatial representation

3 Model-based recognition in robot vision

Roland T. Chin, Charles R. Dyer

March 1986 **ACM Computing Surveys (CSUR)**, Volume 18 Issue 1

Full text available: pdf(4.94 MB) Additional Information: full citation, abstract, references, citings, index terms, review

This paper presents a comparative study and survey of model-based object-recognition algorithms for robot vision. The goal of these algorithms is to recognize the identity, position, and orientation of randomly oriented industrial parts. In one form this is commonly referred to as the "bin-picking" problem, in which the parts to be recognized are presented in a jumbled bin. The paper is organized according to 2-D, 2½-D, and 3-D object representations, which are used as the basis for ...

4 Active zones in CSG for accelerating boundary evaluation, redundancy elimination, interference detection, and shading algorithms

Jaroslaw R. Rossignac, Herbert B. Voelcker

November 1988 **ACM Transactions on Graphics (TOG)**, Volume 8 Issue 1

Full text available: pdf(2.67 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Solids defined by Boolean combinations of solid primitives may be represented in constructive solid geometry (CSG) as binary trees. Most CSG-based algorithms (e.g., for boundary evaluation, graphic shading, interference detection) do various forms of set-membership classification by traversing the tree associated with the solid. These algorithms usually generate intermediate results that do not contribute to the final result, and hence may be regarded as redundant and a source of inefficien ...

5 Representations for Rigid Solids: Theory, Methods, and Systems

Aristides G. Requicha

December 1980 **ACM Computing Surveys (CSUR)**, Volume 12 Issue 4

Full text available: pdf(2.47 MB) Additional Information: full citation, references, citings, index terms

6 Three-dimensional object recognition

Paul J. Besl, Ramesh C. Jain

March 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 1

Full text available: pdf(7.76 MB) Additional Information: full citation, abstract, references, citings, index terms, review

A general-purpose computer vision system must be capable of recognizing three-dimensional (3-D) objects. This paper proposes a precise definition of the 3-D object recognition problem, discusses basic concepts associated with this problem, and reviews the relevant literature. Because range images (or depth maps) are often used as sensor input instead of intensity images, techniques for obtaining, processing, and characterizing range data are also surveyed.

7 Dissertation Abstracts in Computer Graphics

January 1992 **ACM SIGGRAPH Computer Graphics**, Volume 26 Issue 1

Full text available: pdf(2.53 MB) Additional Information: full citation

8 Offsetting operations on non-manifold boundary representation models with simple geometry

Sang Hun Lee

June 1999 **Proceedings of the fifth ACM symposium on Solid modeling and applications**

Full text available: pdf(1.37 MB) Additional Information: full citation, references, citings, index terms

Keywords: CAD, algorithms, geometric modeling, non-manifold, offset, sheet, solid, wireframe

9 Generating swept solids for NC verification using the SEDE method

Liping Wang, Ming C. Leu, Denis Blackmore

May 1997 **Proceedings of the fourth ACM symposium on Solid modeling and applications**

Full text available: pdf(1.32 MB) Additional Information: full citation, references, citings, index terms

Keywords: API tool, general 7-parameter, multi-axis NC machining, solid modeling, swept volume

10 Session 4: Continuous path verification in multi-axis NC-machining

Ron Wein, Oleg Ilushin, Gershon Elber, Dan Halperin

June 2004 **Proceedings of the twentieth annual symposium on Computational geometry**

Full text available: pdf(832.06 KB) Additional Information: full citation, abstract, references, index terms

We introduce a new approach to the problem of collision detection between a rotating milling-cutter of an NC-machine and a model of a solid workpiece, as the rotating cutter continuously moves near the workpiece. Having five degrees of motion freedom, this problem is hard to solve exactly and we approximate the motion of the tool by a sequence of sub-paths of pure translations interleaved with pure rotations. The detection problem along each sub-path is then solved by using radial projection of ...

Keywords: NC-machining, lower envelopes, path verification

11 Constraints in constructive solid geometry

Jaroslaw R. Rossignac

January 1987 **Proceedings of the 1986 workshop on Interactive 3D graphics**

Full text available: pdf(2.04 MB) Additional Information: full citation, abstract, references, citings, index terms

The success of solid modelling in industrial design depends on facilities for specifying and editing parameterized models of solids through user-friendly interaction with a graphical front-end. Systems based on a dual representation, which combines Constructive Solid Geometry (CSG) and Boundary representation (BRep), seem most suitable for modelling mechanical parts. Typically they accept a CSG-compatible input (Boolean combinations of solid primitives) and offer facilities for parameterizi ...

Keywords: computer graphics, constraints, quadric surfaces, rigid motions, solid modelling

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graph based and termination Search

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JNL = Journal or Magazine **CNF** = Conference **STD** = Standard

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1 **A gridless multilayer router for standard cell circuits using CTM cell**
Hsiao-Ping Tseng; Sechen, C.;
Computer-Aided Design of Integrated Circuits and Systems, IEEE Transaction on , Volume: 18 , Issue: 10 , Oct. 1999
Pages:1462 - 1479

[Abstract] [PDF Full-Text (2076 KB)] IEEE JNL

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2 **Ordered binary decision diagrams and minimal trellises**
Lafferty, J.; Vardy, A.;
Computers, IEEE Transactions on , Volume: 48 , Issue: 9 , Sept. 1999
Pages:971 - 986

[Abstract] [PDF Full-Text (380 KB)] IEEE JNL

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3 **On crossing minimization problem**
Chen, H.-F.S.; Lee, D.T.;
Computer-Aided Design of Integrated Circuits and Systems, IEEE Transaction on , Volume: 17 , Issue: 5 , May 1998
Pages:406 - 418

[Abstract] [PDF Full-Text (500 KB)] IEEE JNL

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4 **Highly scalable algorithms for rectilinear and octilinear Steiner tree**
Kahng, A.B.; Mandoiu, I.I.; Zelikovsky, A.Z.;
Design Automation Conference, 2003. Proceedings of the ASP-DAC 2003. Asi South Pacific , 21-24 Jan. 2003
Pages:827 - 833

[Abstract] [PDF Full-Text (687 KB)] IEEE CNF

5 **A graph-based approach for timing analysis and refinement of OPS5 knowledge-based systems**
Cheng, A.M.K.; Tsai, H.-Y.;
Knowledge and Data Engineering, IEEE Transactions on , Volume: 16 , Issue: 2 , Feb. 2004
Pages:271 - 288

[Abstract] [PDF Full-Text (523 KB)] **IEEE JNL**

6 **A general framework for developing adaptive fault-tolerant routing algorithms**
El-Ghazawi, T.; Youssef, A.;
Reliability, IEEE Transactions on , Volume: 42 , Issue: 2 , June 1993
Pages:250 - 258

[Abstract] [PDF Full-Text (656 KB)] **IEEE JNL**

7 **Evolutionary graph generation with terminal-colour constraint for heterogeneous circuit synthesis**
Natsui, M.; Aoki, T.; Higuchi, T.;
Electronics Letters , Volume: 37 , Issue: 13 , 21 June 2001
Pages:808 - 810

[Abstract] [PDF Full-Text (308 KB)] **IEE JNL**

8 **A graph-based disassembly sequence planning for EOL product recy**
Zhang, H.C.; Kuo, T.C.;
Electronics Manufacturing Technology Symposium, 1997., Twenty-First IEEE/ International , 13-15 Oct. 1997
Pages:140 - 151

[Abstract] [PDF Full-Text (932 KB)] **IEEE CNF**

9 **A graph-based approach to disassembly model for end-of-life produ recycling**
Zhang, H.C.; Kuo, T.C.;
Electronics Manufacturing Technology Symposium, 1996., Nineteenth IEEE/CPMT , 14-16 Oct. 1996
Pages:247 - 254

[Abstract] [PDF Full-Text (888 KB)] **IEEE CNF**

10 **Termination analysis in active databases**
Montesi, D.; Bagnato, M.; Dallera, C.;
Database Engineering and Applications, 1999. IDEAS '99. International Symp Proceedings , 2-4 Aug. 1999
Pages:288 - 297

[Abstract] [PDF Full-Text (320 KB)] **IEEE CNF**